

**SCRATCH HARDNESS
OF
COARSE AGGREGATE PARTICLES
ITM 206**

APPARATUS

- ☐ Brass rod, 1/16 in. in diameter, with a rounded point capable of scratching a penny but failing to scratch a nickel
- ☐ Mounting device for brass rod

PROCEDURE

- ☐ Gravel only
- ☐ Sample retained on 3/8 in. sieve
- ☐ Each particle subjected to scratching motion of brass rod using a pressure of 2 lbf
- ☐ Particle classified as soft if one third or more of the volume of the particle has a groove in it without deposition of metal from brass rod or if separate particles are easily detached from mass

Calculation

- ☐ Percent of soft particles calculated correctly to 0.1% as follows:

$$P = \frac{W-S}{W} \times 100$$

where:

P = percent of soft particles

W = weight of test sample

S = weight of sample that is not classified as soft

NA - Not Applicable

X - Requires Corrective Action

√ - Satisfactory

Acceptance Technician

INDOT

Date

Comments _____

